

US Department of Energy

National Energy Technology Laboratory
Technical Topic Area 1 - Gas Hydrate Resource Assessment
and Field Testing on the Alaska North Slope Modification 3

Document Type:	Modification to Previous Grants Notice
Funding Opportunity Number:	DE-PS26-08NT43260-01
Opportunity Category:	Discretionary
Posted Date:	Jan 30, 2008
Creation Date:	Feb 06, 2008
Original Closing Date for Applications:	May 01, 2008
Current Closing Date for Applications:	May 01, 2008
Archive Date:	May 30, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Energy
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$0
Award Floor:	\$0
CFDA Number:	81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

Topic Area 1 □ Gas Hydrate Resource Assessment and Field Testing on the Alaska North Slope (DE-PS26-08NT43260-01) DOE desires to add projects that will recommend opportunities and/or conduct field testing programs designed to determine the recoverability of natural gas hydrates on the North Slope of Alaska. Proposed efforts should include direct application to field programs to which the applicant has either direct access or access through existing partnerships. As part of a proposal, research in this area may include scoping studies designed to identify optimal production system testing locations or may extend to include drilling and testing operations in the field. The projects may include laboratory and/or pilot-scale studies and testing to prove concept feasibility. All lab- and pilot-scale testing proposed should directly lead to field testing of production from hydrates in Alaska.

Link to Full Announcement

[Click here to view the Opportunity - https://e-center.doe.gov/iips/faopor.nsf/UNID/380CDD08E44C9C2C852573E7006C183F?OpenDocument](https://e-center.doe.gov/iips/faopor.nsf/UNID/380CDD08E44C9C2C852573E7006C183F?OpenDocument)

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16669>

US Department of Energy
National Energy Technology Laboratory
Technical Topic Area 2 - Hydrate Production Systems Research
Modification 2

Document Type:	Modification to Previous Grants Notice
Funding Opportunity Number:	DE-PS26-08NT43260-02
Opportunity Category:	Discretionary
Posted Date:	Jan 30, 2008
Creation Date:	Feb 06, 2008
Original Closing Date for Applications:	Mar 17, 2008
Current Closing Date for Applications:	Mar 17, 2008
Archive Date:	May 30, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Energy
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$0
Award Floor:	\$0
CFDA Number:	81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

Topic Area 2 - Hydrate Production Systems Research (DE-PS26-08NT43260-02)
DOE desires to add new production system related projects to the program's portfolio. Applications are sought to develop, modify, and evaluate, cost-effective tools, technologies and approaches for producing methane from high saturation subsurface gas hydrate accumulations within sandstone reservoirs. This

research will be designed to develop technologies/systems that will lead to technically viable production methods and/or provide information on the production rates obtainable from gas hydrate deposits and the most effective suites of drilling, completion, and stimulation methods (including injection of CO₂) to optimize production viability for given geologic settings. Research proposed in this area may be supported by modeling and numerical simulation but stand alone Applications based solely on modeling and/or numerical simulation will not be considered. The primary focus is to be the physical development and testing of production technologies and methodologies.

Link to Full Announcement

[Click here to view the Opportunity - https://e-center.doe.gov/iips/faopor.nsf/UNID/3C0F95060A1D5A7B852573E7006C5BC0?OpenDocument](https://e-center.doe.gov/iips/faopor.nsf/UNID/3C0F95060A1D5A7B852573E7006C5BC0?OpenDocument)

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16670>

US Department of Energy
National Energy Technology Laboratory
Technical Topic Area 3 - Hydrate Detection and
Characterization via Remote Sensing Tools Modification 4

Document Type:	Modification to Previous Grants Notice
Funding Opportunity Number:	DE-PS26-08NT43260-03
Opportunity Category:	Discretionary
Posted Date:	Jan 30, 2008
Creation Date:	Feb 06, 2008
Original Closing Date for Applications:	Mar 17, 2008
Current Closing Date for Applications:	Mar 17, 2008
Archive Date:	May 30, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Energy
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$0
Award Floor:	\$0
CFDA Number:	81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

Topic Area 3 - Hydrate Detection and Characterization via Remote Sensing Tools (DE-PS26-08NT43260-03) Applications are sought for research on improved remote sensing methods for predicting, detecting, and /or appraising hydrate distribution in the natural environment and the nature of associated sediments and structures. Particularly, advanced geophysical methods such as deep sea electromagnetics (EM) that can be applied to broad regions are desired. DOE emphasis will be on those efforts that include direct calibration of geophysical interpretations through reference to data collected in situ.

Link to Full Announcement

[Click here to view the Opportunity - https://e-center.doe.gov/iips/faopor.nsf/UNID/3250420FE902016E852573E7006C704F?OpenDocument](https://e-center.doe.gov/iips/faopor.nsf/UNID/3250420FE902016E852573E7006C704F?OpenDocument)

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16671>

US Department of Energy
Chicago Service Center
Funding Opportunity Notice for FY 2008 SBIR/STTR Phase II Grant

Document Type:	Grants Notice
Funding Opportunity Number:	DE-PS02-08ER08-17
Opportunity Category:	Discretionary
Posted Date:	Feb 12, 2008
Creation Date:	Feb 12, 2008
Original Closing Date for Applications:	Apr 18, 2008
Current Closing Date for Applications:	Apr 18, 2008
Archive Date:	Jun 12, 2008
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$750,000
Award Floor:	\$1
CFDA Number:	81.049 -- Office of Science Financial Assistance Program

Cost Sharing or Matching Requirement: No

Eligible Applicants

Small businesses

Description

The Department of Energy (DOE) invites all DOE SBIR/STTR Phase I Awardees from FY 2007 to submit Phase II grant applications. The Department may also reconsider previously submitted, peer-reviewed, high ranking Phase II grant applications from FY 2007. However, this is only at the discretion and request of the DOE Project Officer. Those applicants do not have an opportunity to reapply. If a previously submitted application is selected for funding, the applicant would have an opportunity to determine if they are still interested and able to pursue the Phase II research project. The purpose of Phase II is to perform the research and development required to meet the DOE objectives stated in the technical topic of the Phase I funding notice. In addition, it is intended that the small business grantee would be in a position to pursue commercial applications of the R D at the end of Phase II. In many cases, Phase II results in a prototype product or a working process that can be demonstrated to a potential investor or customer. This funding notice is supplemental to the FY 2007 SBIR/STTR Phase I Funding Notice (DE-PS02-06ER06-30) therefore, general information already provided in the FY 2007 Notice also applies to this Phase II process. If a conflict arises, this Phase II Notice will govern.

Link to Full Announcement

[Click here to view the Opportunity - https://e-center.doe.gov/iips/faopor.nsf/UNID/89AE3A03437943EF852573ED006F9C92?OpenDocument](https://e-center.doe.gov/iips/faopor.nsf/UNID/89AE3A03437943EF852573ED006F9C92?OpenDocument)

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16846>

US Department of Energy
National Energy Technology Laboratory
Area of Interest 1 – MEMBRANES Modification 2

Document Type:	Modification to Previous Grants Notice
Funding Opportunity Number:	DE-PS26-08NT00134-01
Opportunity Category:	Discretionary
Posted Date:	Feb 13, 2008
Creation Date:	Feb 19, 2008
Original Closing Date for Applications:	Mar 20, 2008
Current Closing Date for Applications:	April 10, 2008

Archive Date:	Jun 13, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Science and Technology and other Research and Development Energy
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$5,000,000
Award Floor:	\$0
CFDA Number:	81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

NOTE: This descriptive area provides an overview of Area of Interest 1 only. YOU MUST READ THE ENTIRE FUNDING OPPORTUNITY ANNOUNCEMENT DOCUMENT FOR ADDITIONAL INFORMATION, EVALUATION CRITERIA AND INSTRUCTIONS ON HOW TO PREPARE AN APPLICATION UNDER A SPECIFIC AREA OF INTEREST. Please scroll to the bottom of this page to access the Funding Opportunity Announcement. Area of Interest 1: MEMBRANES Membrane-based capture uses permeable or semi-permeable materials that allow for the selective transport/separation of CO₂ from flue gas. Key technical challenges to the use of membranes to capture CO₂ from coal-fired power plant flue gas include: (1) large flue gas volume; (2) relatively low CO₂ concentration (less than 15% by volume); (3) low flue gas pressure (i.e., driving force); (4) flue gas contaminants (e.g., SO₂, trace elements, uncollected fly ash); and (5) the need for high membrane surface area. Interested parties looking to submit an application under this area of interest can download the application package at the following link by clicking on the Application button in the top right-hand corner of the screen:
http://www.grants.gov/search/search.do?jsessionid=H05Td5Hvpz299sF589NvhNGGcSmV9w_m4mdHmVdTdqpWk1gYpknyl!834976773?oppld=16859flag2006=true mode=VIEW

Link to Full Announcement

[Click here to view the Opportunity -
https://ecenter.doe.gov/iips/faopor.nsf/UNID/07A8EAA16E0FFC90852573F00073964F?
OpenDocument](https://ecenter.doe.gov/iips/faopor.nsf/UNID/07A8EAA16E0FFC90852573F00073964F?OpenDocument)
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16859>

US Department of Energy
National Energy Technology Laboratory
Area of Interest 2 - SOLVENTS
Modification 4

Document Type:	Modification to Previous Grants Notice
Funding Opportunity Number:	DE-PS26-08NT00134-02
Opportunity Category:	Discretionary
Posted Date:	Feb 13, 2008
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Current Closing Date for Applications:	April 10, 2008
Archive Date:	Jun 13, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Science and Technology and other Research and Development Energy
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$5,000,000
Award Floor:	\$0
CFDA Number:	81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

NOTE: This descriptive area provides an overview of Area of Interest 2 only. YOU MUST READ THE ENTIRE FUNDING OPPORTUNITY ANNOUNCEMENT DOCUMENT FOR ADDITIONAL INFORMATION, EVALUATION CRITERIA AND INSTRUCTIONS ON HOW TO PREPARE AN APPLICATION UNDER A SPECIFIC AREA OF INTEREST. Please scroll to the bottom of this page to access the Funding Opportunity Announcement. Area of Interest 2: SOLVENTS Solvent-based systems, typically using amines, are in commercial use in scrubbing CO₂ from industrial flue gases and process gases. However, they have not been applied to removing large volumes of CO₂ as would be encountered in a PC-fired utility boiler flue gas. Key technical challenges to

solvent based systems for capturing CO2 from coal-fired power plants include: (1) large flue gas volume; (2) relatively low CO2 concentration; (3) flue gas contaminants; and (4) high parasitic power demand for solvent recovery. Interested parties looking to submit an application under this area of interest can download the application package at the following link by clicking on the Application button in the top right-hand corner of the screen:
<http://www.grants.gov/search/search.do;jsessionid=H05Td5Hvpz299sF589NvhN GGcSmV9w m4mdHmVdTdqpWk1gYpknyl!834976773?oppld=16860 flag2006=true mode=VIEW>

Link to Full Announcement

[Click here to view the Opportunity](#)

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16860>

US Department of Energy
National Energy Technology Laboratory
Area of Interest 3 - SOLID SORBENTS
Modification 2

Document Type:	Modification to Previous Grants Notice
Funding Opportunity Number:	DE-PS26-08NT00134-03
Opportunity Category:	Discretionary
Posted Date:	Feb 13, 2008
Creation Date:	Feb 19, 2008
Original Closing Date for Applications:	Mar 20, 2008
Current Closing Date for Applications:	April 10, 2008
Archive Date:	Jun 13, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Energy Science and Technology and other Research and Development Energy
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$5,000,000
Award Floor:	\$0
CFDA Number:	81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

NOTE: This descriptive area provides an overview of Area of Interest 3 only. YOU MUST READ THE ENTIRE FUNDING OPPORTUNITY ANNOUNCEMENT DOCUMENT FOR ADDITIONAL INFORMATION, EVALUATION CRITERIA AND INSTRUCTIONS ON HOW TO PREPARE AN APPLICATION UNDER A SPECIFIC AREA OF INTEREST. Please scroll to the bottom of this page to access the Funding Opportunity Announcement. Area of Interest 3: SOLID SORBENTS Solid particles can be used to capture CO₂ from flue gas through chemical absorption, physical adsorption, or a combination of the two effects. Possible configurations for contacting the flue gas with the solid particles include fixed, moving, and fluidized beds. Key technical challenges to sorbent based systems for capturing CO₂ from coal-fired power plants include: (1) large flue gas volume; (2) relatively low CO₂ concentration; (3) flue gas contaminants; and (4) high parasitic power demand for sorbent recovery. Interested parties looking to submit an application under this area of interest can download the application package at the following link by clicking on the Application button in the top right-hand corner of the screen:
<http://www07.grants.gov/search/search.do;jsessionid=H08YNHp2fJYwLTxtpcVthPh4XrnB YTX07WJ1KdpY1qQc8m2G2vVz!834976773?oppld=16861flag2006=true mode=VIEW>

Link to Full Announcement

<https://ecenter.doe.gov/iips/faopor.nsf/UNID/1BA1191C380E2F61852573F00073DBCC?OpenDocument>

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16861>

US Department of Energy
Chicago Service Center
Basic Research and Modeling to Support Integrated Assessment of Climate Change
Impacts and Adaptations Grant

Document Type:	Grants Notice
Funding Opportunity Number:	DE-PS02-08ER08-18
Opportunity Category:	Discretionary
Posted Date:	Feb 14, 2008
Creation Date:	Feb 14, 2008
Original Closing Date for Applications:	Apr 14, 2008
Current Closing Date for Applications:	Apr 14, 2008
Archive Date:	Jun 14, 2008

Funding Instrument Type: Grant
Category of Funding Activity: Science and Technology and other Research and Development
Category Explanation:
Expected Number of Awards:
Estimated Total Program Funding:
Award Ceiling:
Award Floor:
CFDA Number: 81.049 -- Office of Science Financial Assistance Program
Cost Sharing or Matching Requirement: No

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

The Office of Biological and Environmental Research (BER) of the Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving grant applications for basic research and modeling to support integrated assessment of climate change impacts and adaptations under the Integrated Assessment Research Program (IARP). The IARP, located within the Climate Change Research Division (CCRD) of BER, supports the U.S. Climate Change Science Program in efforts to understand, model, and assess the complex interaction of the integrated human-natural system on climate forcing as well as the impacts to the human- natural system from climate change. Past work of the IARP has emphasized understanding and predicting anthropogenic drivers of climate change. Future work seeks to improve our scientific understanding of the impacts to human and natural systems from climate change and the potential capacity to adapt to such change. Applications are requested that advance the fundamental methodologies for analysis of climate change impacts and adaptations, including innovative models and approaches. Grant applications that approach these elements in the context of a critically important area for DOE - potential climate change impacts on energy systems and their capacity to adapt - are especially encouraged.

Link to Full Announcement

[Click here to view the Opportunity](http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&opId=16871)
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&opId=16871>

Area of Interest 4 - OXY-COMBUSTION SYSTEM DEVELOPMENT
Modification 4

Document Type:	Modification to Previous Grants Notice
Funding Opportunity Number:	DE-PS26-08NT00134-04
Opportunity Category:	Discretionary
Posted Date:	Feb 13, 2008
Creation Date:	Feb 19, 2008
Original Closing Date for Applications:	Mar 20, 2008
Current Closing Date for Applications:	April 10, 2008
Archive Date:	Jun 13, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Science and Technology and other Research and Development Energy
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$5,000,000
Award Floor:	\$0
CFDA Number:	81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

NOTE: This descriptive area provides an overview of Area of Interest 4 only. YOU MUST READ THE ENTIRE FUNDING OPPORTUNITY ANNOUNCEMENT DOCUMENT FOR ADDITIONAL INFORMATION, EVALUATION CRITERIA AND INSTRUCTIONS ON HOW TO PREPARE AN APPLICATION UNDER A SPECIFIC AREA OF INTEREST. Please scroll to the bottom of this page to access the Funding Opportunity Announcement. Area of Interest 4: OXY-COMBUSTION SYSTEM DEVELOPMENT While the key technical components of oxy-combustion systems are commercially available, an integrated commercially operated oxy-combustion power plant has yet to be demonstrated. To support the development of this technology several technical hurdles exist. Research is required to optimize oxy-combustion burners so that flue gas recirculation is minimized and boiler efficiency is maximized. Corrosion characteristics of existing boiler materials under conditions created due to flue gas recycle need to be determined. Interested parties looking to submit an

application under this area of interest can download the application package at the following link by clicking on the Application button in the top right-hand corner of the screen:

<http://www07.grants.gov/search/search.do;jsessionid=H09NbK1vIkpBvwPwnH1vpVm1nJY92jJ6jLQznzPW78lvpxGk1dg!834976773?oppld=16862flag2006=true mode=VIEW>

Link to Full Announcement

<https://ecenter.doe.gov/iips/faopor.nsf/UNID/6DE683B557464CD8852573F00073F6CE?OpenDocument>
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16862>

US Department of Energy
National Energy Technology Laboratory
Area of Interest 5 - FLUE GAS PURIFICATION
Modification 4

Document Type:	Modification to Previous Grants Notice
Funding Opportunity Number:	DE-PS26-08NT00134-05
Opportunity Category:	Discretionary
Posted Date:	Feb 13, 2008
Creation Date:	Feb 19, 2008
Original Closing Date for Applications:	Mar 20, 2008
Current Closing Date for Applications:	April 10, 2008
Archive Date:	Jun 13, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Science and Technology and other Research and Development Energy
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$5,000,000
Award Floor:	\$0
CFDA Number:	81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

NOTE: This descriptive area provides an overview of Area of Interest 5 only. YOU MUST READ THE ENTIRE FUNDING OPPORTUNITY ANNOUNCEMENT DOCUMENT FOR ADDITIONAL INFORMATION, EVALUATION CRITERIA AND INSTRUCTIONS ON HOW TO PREPARE AN APPLICATION UNDER A SPECIFIC AREA OF INTEREST. Please scroll to the bottom of this page to access the Funding Opportunity Announcement. Area of Interest 5: FLUE GAS PURIFICATION Oxy-combustion systems produce a flue gas that has a high CO₂ concentration but may also include water, excess O₂, N₂, SO_x, NO_x, Hg, and other contaminants. Depending on transportation and sequestration requirements, the levels of these compounds present in the flue gas may need to be reduced to acceptable levels. Interested parties looking to submit an application under this area of interest can download the application package at the following link by clicking on the Application button in the top right-hand corner of the screen:

<http://www07.grants.gov/search/search.do?jsessionid=H02Cm2SC0szV6w6391271n8ygBTzGgXYJn6RL4Lj9KpQY1ngsT2C!834976773?oppld=16863flag2006=true mode=VIEW>

Link to Full Announcement

<https://ecenter.doe.gov/iips/faopor.nsf/UNID/45C9D252025A4DA5852573F0007406DF?OpenDocument>
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16863>

US Department of Energy
National Energy Technology Laboratory
Area of Interest 6 - OXY-COMBUSTION BOILER DEVELOPMENT
Modification 4

Document Type:	Modification to Previous Grants Notice
Funding Opportunity Number:	DE-PS26-08NT00134-06
Opportunity Category:	Discretionary
Posted Date:	Feb 13, 2008
Creation Date:	Feb 19, 2008
Original Closing Date for Applications:	Mar 20, 2008
Current Closing Date for Applications:	Mar 20, 2008
Archive Date:	Jun 13, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Energy Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	

Award Ceiling: \$5,000,000
Award Floor: \$0
CFDA Number: 81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement: Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

NOTE: This descriptive area provides an overview of Area of Interest 6 only. YOU MUST READ THE ENTIRE FUNDING OPPORTUNITY ANNOUNCEMENT DOCUMENT FOR ADDITIONAL INFORMATION, EVALUATION CRITERIA AND INSTRUCTIONS ON HOW TO PREPARE AN APPLICATION UNDER A SPECIFIC AREA OF INTEREST. Please scroll to the bottom of this page to access the Funding Opportunity Announcement. Area of Interest 6: OXY-COMBUSTION BOILER DEVELOPMENT The characteristics of oxy-combustion as compared to air fired combustion have not yet been fully developed. Applications addressing laboratory and bench scale research into oxy-combustion boiler characteristics and innovative oxy-burner design are of interest. Oxy-combustion flame characteristics, burner and coal feed design, and analyses of the interaction of oxy-combustion products with boiler materials are all areas of research sought for coal based combustion systems. Interested parties looking to submit an application under this area of interest can download the application package at the following link by clicking on the Application button in the top right-hand corner of the screen:
<http://www07.grants.gov/search/search.do;jsessionid=H02Zn0hmj1fD6Pbvz80vqd2plms7zC69WTzGdhhJhvwNJvYvQWPW!834976773?oppld=16864flag2006=true mode=VI>

Link to Full Announcement

<https://e-center.doe.gov/iips/faopor.nsf/UNID/A6CDC8781118750C852573F0007415C8?OpenDocument>
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16864>

US Department of Energy
National Energy Technology Laboratory
Area of Interest 7 - CHEMICAL LOOPING COMBUSTION
Modification 4

Document Type:

Modification to Previous Grants Notice

Funding Opportunity Number:	DE-PS26-08NT00134-07
Opportunity Category:	Discretionary
Posted Date:	Feb 13, 2008
Creation Date:	Feb 19, 2008
Original Closing Date for Applications:	Mar 20, 2008
Current Closing Date for Applications:	April 10, 2008
Archive Date:	Jun 13, 2008
Funding Instrument Type:	Cooperative Agreement
Category of Funding Activity:	Energy Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	\$5,000,000
Award Floor:	\$0
CFDA Number:	81.089 -- Fossil Energy Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Unrestricted

Description

NOTE: This descriptive area provides an overview of Area of Interest 7 only. YOU MUST READ THE ENTIRE FUNDING OPPORTUNITY ANNOUNCEMENT DOCUMENT FOR ADDITIONAL INFORMATION, EVALUATION CRITERIA AND INSTRUCTIONS ON HOW TO PREPARE AN APPLICATION UNDER A SPECIFIC AREA OF INTEREST. Please scroll to the bottom of this page to access the Funding Opportunity Announcement. Area of Interest 7: CHEMICAL LOOPING COMBUSTION Chemical looping involves the use of a solid O₂ carrier particle in the combustion of fuels. The O₂ carrier particle is oxidized in one reactor and is used to combust the fuel in another reactor. This funding opportunity announcement is interested in developing systems and O₂ carriers for use in chemical looping combustion of coal. Key issues for chemical looping combustion of coal include solids handling along with O₂ carrier capacity, reactivity, and chemical and/or physical attrition resistance. Interested parties looking to submit an application under this area of interest can download the application package at the following link by clicking on the Application button in the top right-hand corner of the screen:
<http://www07.grants.gov/search/search.do;jsessionid=H02BXnH0VhQTvyLn6vpLyV4wyXvqC0FI2yS5hcKS1zTmDD1PhS1B!834976773?opId=16865flag2006=true mode=VIEW>

Link to Full Announcement

<https://ecenter.doe.gov/iips/faopor.nsf/UNID/E7AB581FA4FA3B41852573F0007424EB?OpenDocument>
<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16865>

US Department of Energy
Chicago Service Center
Research Opportunities at Rare Isotope Beam Facilities Grant

Document Type:	Grants Notice
Funding Opportunity Number:	DE-PS02-08ER08-10
Opportunity Category:	Discretionary
Posted Date:	Feb 14, 2008
Creation Date:	Feb 14, 2008
Original Closing Date for Applications:	Nov 10, 2008
Current Closing Date for Applications:	Nov 10, 2008
Archive Date:	Jun 14, 2009
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	\$50,000,000
Award Ceiling:	
Award Floor:	
CFDA Number:	81.049 -- Office of Science Financial Assistance Program
Cost Sharing or Matching Requirement:	No

Eligible Applicants

Unrestricted

All types of domestic applicants are eligible to apply, except other Federal agencies, Federally Funded Research and Development Center (FFRDC) Contractors, and nonprofit organizations described in section 501(c)(4) of the Internal Revenue Code of 1986 that engaged in lobbying activities after December 31, 1995. Formal applications will be accepted only from preapplicants encouraged to submit a formal application. A companion Program Announcement to DOE Laboratories (LAB 08-10) will be posted on the Office of Science Grants and Contracts web site at:
http://www.science.doe.gov/grants/LAB08_10.html.

Description

The Office of Nuclear Physics (NP), Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving preapplications for developing outstanding scientific opportunities in nuclear structure and dynamics, nuclear astro-physics, and tests of fundamental interactions and symmetries at leading rare isotope beam (RIB) facilities around the world.

Link to Full Announcement

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16868>

<https://e-center.doe.gov/iips/faopor.nsf/UNID/5B4C32846AA60FF1852573EF00590B33?OpenDocument>

US Department of Energy
Golden Field Office
Energy Intensive Processes 2008 Lab Call Grant

Document Type:	Grants Notice
Funding Opportunity Number:	DE-PS36-08GO98014
Opportunity Category:	Discretionary
Posted Date:	Feb 14, 2008
Creation Date:	Feb 14, 2008
Original Closing Date for Applications:	Apr 01, 2008 In order for the Industrial Technologies Program to meet programmatic requirements.
Current Closing Date for Applications:	Apr 01, 2008 In order for the Industrial Technologies Program to meet programmatic requirements.
Archive Date:	Jun 14, 2008
Funding Instrument Type:	Other
Category of Funding Activity:	Energy
Category Explanation:	
Expected Number of Awards:	12
Estimated Total Program Funding:	\$15,000,000
Award Ceiling:	\$2,000,000
Award Floor:	\$500,000
CFDA Number:	81.086 -- Conservation Research and Development
Cost Sharing or Matching Requirement:	Yes

Eligible Applicants

Others (see text field entitled "Additional Information on Eligibility" for clarification)

Additional Information on Eligibility:

Only DOE/NNSA National Laboratories (FFRDCs) are eligible to apply as prime.

Description

: A link to the full Funding Opportunity Announcement is found by scrolling to the bottom of this page. This is a restricted eligibility. Only DOE/NNSA National Laboratories (FFRDCs) are eligible to apply as prime. They are responsible for organizing and leading the project team. Industrial participation is a mandatory requirement. Collaborations involving educational institutions, industrial companies, and R D organizations (FFRDCs as well as others) are encouraged. The purpose of this Program Announcement (PA), Energy Intensive Processes 2008 Lab Call, is to solicit, select and fund cost-shared R D projects at DOE National Laboratories (FFRDCs) to develop innovative technologies that, when deployed commercially, would reduce the energy requirements for energy-intensive processes across many industrial sectors. This is in direct support of the EAct Section 106 goal of voluntary reduction of energy intensity of U.S. manufacturing industries by 25% over next ten years and the concomitant reduction of carbon foot print of the US industries. Applications for this Funding Opportunity Announcement must be accessed, completed, and submitted through Grants.gov at <http://www.grants.gov> to be considered for award. Questions regarding the content of the announcement should be submitted through the ☐ Submit Question ☐ feature of the DOE Industry Interactive Procurement System (IIPS) at <http://e-center.doe.gov>. VERY IMPORTANT: To complete and submit applications through Grants.gov, there are several actions you must complete (e.g., obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, register with the Central Contract Registry (CCR), install the PureEdge Viewer, register with the credential provider, and register with Grants.gov). Applicants are highly encouraged to register as soon as possible and should allow at least 21 days to complete the registration process. When done, call the Grants.gov Helpdesk at 1-800-518-4726 to verify successful registration. Registration Instructions are found on the Grants.gov web site at <http://www.grants.gov> and in the Funding Opportunity Announcement. Microsoft Vista and Office 2007 Compatibility: Grants.gov is currently incompatible with both the new Microsoft (MS) Vista Operating System and the new Microsoft (MS) Office 2007 versions of Word, Excel, and Power Point. In order to create and submit your application to Grants.gov, you must find a computer with a previous version Microsoft Operating System, such as Windows XP. If you attach a file created using MS Office 2007, you will not get an error message when you submit the application, HOWEVER, your entire application will not be able to be processed or accepted at Grants.gov and will not reach DOE. Grants.gov can accept applications with attachments created in MS Office 2007 if the attachments are saved in the prior format. See the http://www.grants.gov/assets/Vista_and_office_07_Compatibility.pdf for detailed instructions on how to do this. A file created in MS Office 2007 can be identified

by the x at the end of the file extension, for example sample.docx for a Word file.
Help Mode: It is important to complete all the required fields in accordance with the pop-up instructions on the Application forms. To activate the instructions, turn on the ☐ Help Mode ☐ (Icon with the pointer and question mark at the top of the form). Should you have questions regarding the operation of Grants.gov, please contact the Grants.gov Contact Center at support@grants.gov or 1-800-518-4726. Contact Center hours of operation are Monday - Friday from 7:00am to 9:00pm Eastern Standard Time.

Link to Full Announcement

[Click here to view the Opportunity - https://e-center.doe.gov/iips/faopor.nsf/UNID/1760CE33C44D0CE4852573EF00782615?OpenDocument](https://e-center.doe.gov/iips/faopor.nsf/UNID/1760CE33C44D0CE4852573EF00782615?OpenDocument)

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&oppld=16876>

US Department of Energy
Chicago Service Center
Multiscale Mathematics and Optimization for Complex Systems Grant

Document Type:	Grants Notice
Funding Opportunity Number:	DE-PS02-08ER08-13
Opportunity Category:	Discretionary
Posted Date:	Feb 19, 2008
Creation Date:	Feb 19, 2008
Original Closing Date for Applications:	Apr 28, 2008
Current Closing Date for Applications:	Apr 28, 2008
Archive Date:	Feb 19, 2009
Funding Instrument Type:	Grant
Category of Funding Activity:	Science and Technology and other Research and Development
Category Explanation:	
Expected Number of Awards:	
Estimated Total Program Funding:	
Award Ceiling:	
Award Floor:	
CFDA Number:	81.049 -- Office of Science Financial Assistance Program
Cost Sharing or Matching Requirement:	No

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Description

The Office of Advanced Scientific Computing Research (ASCR) of the Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving grant applications for research addressing multiscale mathematics and optimization for complex natural and engineered systems. Awards for this solicitation will be made in two categories: 1) Multiscale Mathematics for Complex Systems, and 2) Optimization of Complex Systems. Areas of focus within these categories include the development of: " Mathematical tools needed for the modeling, analysis, and simulation of multiscale phenomena, including those associated with complex multiphysics systems or hybrid discrete-continuum models. " Techniques for formulating, analyzing and solving challenging optimization problems arising in complex natural and engineered systems. Additional areas of interest in both categories include sensitivity analysis, risk analysis, and the quantification and mitigation of uncertainty.

Link to Full Announcement

<https://ecenter.doe.gov/iips/faopor.nsf/UNID/33BEA2553BD58742852573F40070F1DA?OpenDocument>

<http://www.grants.gov/search/search.do?&mode=VIEW&flag2006=true&opId=16901>